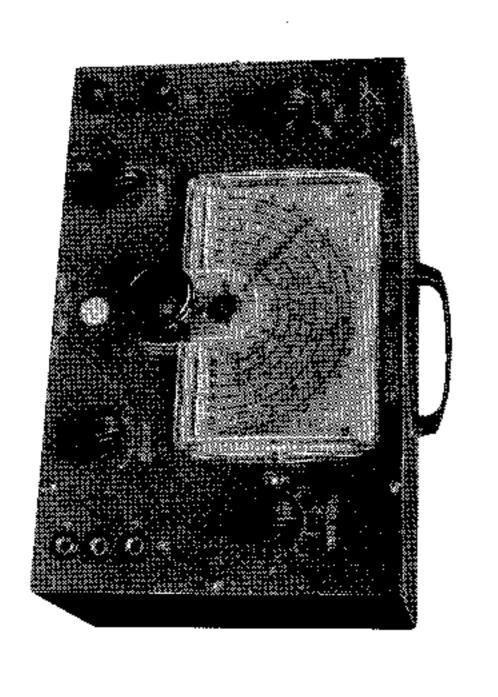
850, TSUNASHIMA-CHO, KOHOKU-KU, **УОКОНАМА**, JAPAN.

OHMATSU ELECTRIC CO.,



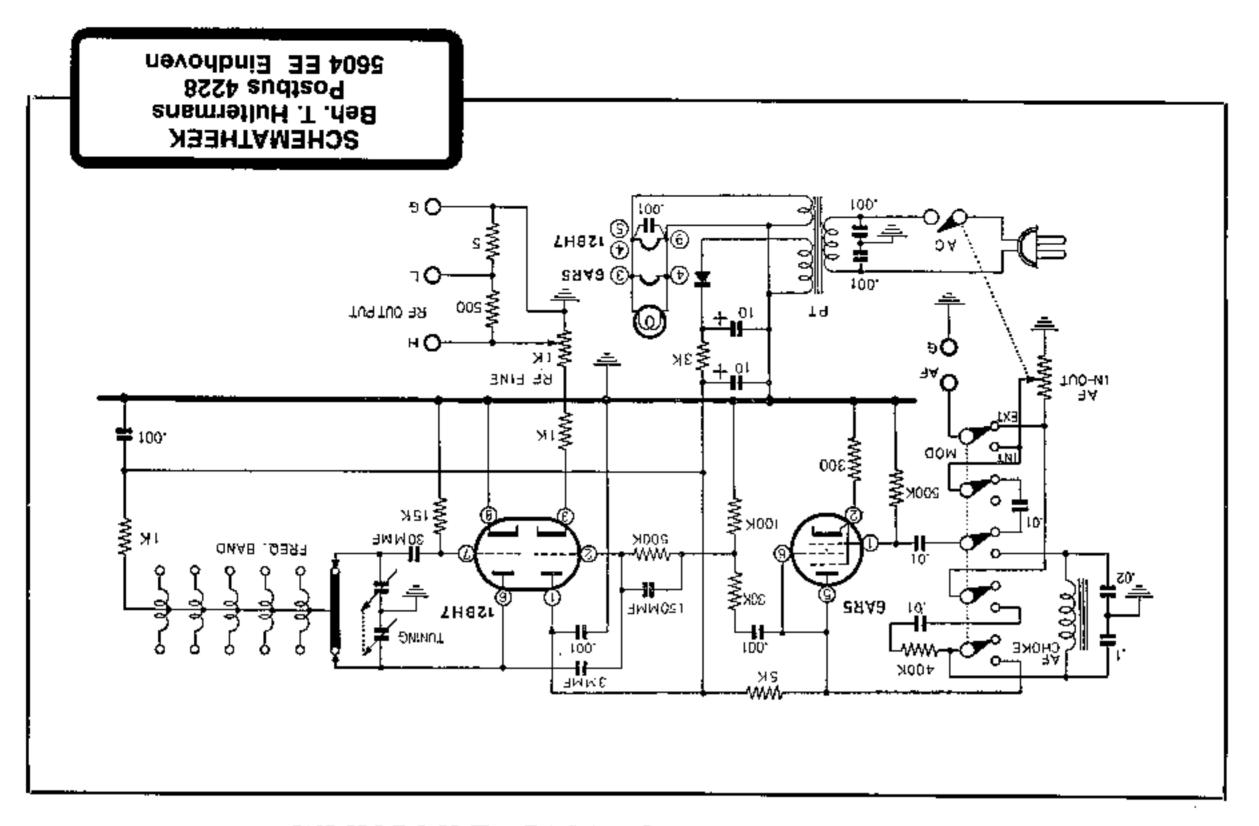
SIGNAL GENERATOR

MODEL LSG-10

SCHEMATHEEK Boh. T. Hultermans Postbus 4228 5604 EE Eindhoven

_EADER TEST INSTRUMENTS

SCHEMATIC WIRING DIAGRAM



MODEL LSG-10 SIGNAL GENERATOR

The **LSG-10** is a compact and hanby high quality instrument for the radio service benchss, amateur constructor, and for instruction, it is light in weight, occupies small space, and is built for maximum service.

SPECIFICATIONS :	Frequency Range	120 KC to 260 MC
	and A	120 KC to 320 KC
	ß	320 KC to 1000 KC
	U	1.0 MC to 3.2 MC
	۵	3.2 MC to 11 MC
	Ш	11 MC to 38 MC
	L	37 MC to 130 MC
	Calibrated Harmonics	120 MC to 260 MC
R. F. Output	Over 100,000 microvolts	
R. F. Control	Variable with 2 taps	
Modulation Freq.	Approximately 403 cps	
A. F. Output	2 to 3 volts	
A. F. Input	Approximately 4 volts	
Tube Complement	R. F. Osc-Buffer	12BH7
	A. F. Osc-Amplifier	6AR5
Power Source	valts, 50/60 cps	12 watts
Size & Weight	$65\%7\times10^{9}\times45\%$	6 lb appr.
	(250×160×115 mm 2.	2.7 kg)

DESCRIPTION: A. Radio-Frequency Section. A 12BH7 is used as a combined radio frequency oscillator and buffer. One triode section is used as a Colpitts oscillator and the other triode is used for a buffer to isolate the load from the frequency determining portion. The output voltage is continuously variable with two taps, High and Low.

rhe The modulation, generator. source ţō cycle an audio nsed 400 þe internal modulator or cycles are to A 6AR5 is used as When frequencies other than 400 Audio Section. can be used either as an becomes on amplifier.

The frequency calibration can be depended upon to 2%, directly from the scale. However, when a higher degree of accuracy is desired, the generator must be calibrated using a heterodyne frequency meter or other source of accurate frequencies, and calibrated using the logging scale on the dial.

The generator is designed for on volts, 50/60 cps, and care should be taken that a DC source is not used.

of the output cable into the "H" output jack and the shield plug overloading the tubes in the receiver. Excessive inputs cause two resonance points volt AC power fine, Insert the plug of receiver when the latter generator clockwise. obtained tap to The input to the receiver from the generator should be as low as posssible to connected "FREQ. BAND" ANT and GND terminals respectively, of the receiver under test. Set the switch (lower left) changing the output þe output can into the "G" jack, The center lead and shield clips should be to appear and proper alignment or adjustments are impossible. of the and ч. to the desired frequency by turning the center knob AC cycle tone should be heard from the speaker Suitable R. and turn the adjusting the "R. F. FINE" knob, and also by Attach line plug to the generator frequency. Set the "MOD" switch to "INT", is runed to the the center lead OPERATION : A 400

External modulating frequencies may be applied by furning the "MOD" knob to "EXT" and the audio input to the AF binding posts. For audio testing, the 400 cycle output is avilable at the same binding posts by turning the "MOD" swich to "INI", and the output may be varied by the AF IN/OUT control.